

IDEA-1712-64
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22 January 1964

MEMORANDUM FOR THE RECORD

SUBJECT : 112A Camera

1. The 112A camera was developed and flight tested in the U-2 to provide as soon as possible a capability for higher resolution from the IDEALIST vehicle. To save time and reduce expenditures, an existing hatch cover from a former program was employed even though the center window was not quite large enough to accommodate the 70° scan angle of the camera. The resulting installation cuts out a part of the light at the outside edges of each scan resulting in useable but less than optimum photography in the extreme edges of the format.

2. The attached chart shows the amount of ground lateral coverage in nautical miles at varying altitudes above terrain. If you consider the total scan angle to be 70°, then at 70,000' altitude the lateral coverage is 17 nautical miles. If the flight is at 68,000' altitude over terrain that is 6,000' above sea level then only 15.5 nautical miles is realized even at the 70° scan angle.

3. Since the lateral coverage is a function of altitude (a variable) and scan angle (not precisely defined) it is impossible to state the nautical miles of coverage by itself.

25X1A

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SSD/OSA:gp (22 January 1964)

Distribution:

- Cy 1 - SSD/OSA all w/att
- 2 - DAD/OSA
- 3 - AD/OSA
- 4 - D/TECH/OSA
- 5 - D/FA/OSA
- 6 - OP/OSA
- 7 - chrono
- 8 - RB/OSA

